IN THE SPECIFICATION:

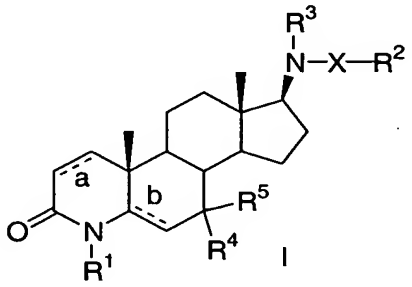
Please insert the following paragraph on page 1 after the Title:

This application is a §371 National Stage application of PCT/US2004/013787, filed on May 3, 2004, which claims priority from: U.S. Provisional Application No. 60/468,579 filed May 7, 2003.

IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

1. **(Original)** A method for modulating the androgen receptor in a tissue selective manner in a patient in need of such modulation comprising administering a therapeutically effective amount of a compound of structural formula I:



I

wherein:

"a" and "b" are independently selected from a single bond and a double bond;

X is selected from:

(A) -C(O)-,

(B) –C(O)-O-,

(C) –C(O)-N(R^7)-,and

(D) –$S(O)_n$-;

R^1 is selected from:

(A) C_{1-3} alkyl,

(B) C_{2-3} alkenyl,

(C) C_{3-6} cycloalkyl,

(D) C_{1-3} alkyl wherein one or more of the hydrogen atoms has been replaced with a fluorine atom,

(E) aryl, and

(F) aryl-C_{1-3} alkyl;

R^2 is selected from:

(A) aryl, either unsubstituted or substituted with one to three substituents selected from:

(1) halogen,

(2) aryl,

(3) C_{1-8} alkyl,

(4) C_{3-8} cycloalkyl,

(5) C_{3-8} cycloheteroalkyl,

(6) aryl C_{1-6}alkyl,

(7) amino C_{0-6}alkyl,

(8) C_{1-6} alkylamino C_{0-6}alkyl,

(9) (C_{1-6} alkyl)$_2$amino C_{0-6}alkyl,

(10) aryl C_{0-6} alkylamino C_{0-6}alkyl,

(11) (aryl C_{0-6} alkyl)$_2$amino C_{0-6}alkyl,

(12) C_{1-6} alkylthio,

(13) aryl C_{0-6}alkylthio,

(14) C_{1-6} alkylsulfinyl,

(15) aryl C_{0-6}alkylsulfinyl,

(16) C_{1-6} alkylsulfonyl,

(17) aryl C_{0-6}alkylsulfonyl,

(18) C_{1-6} alkoxy C_{0-6}alkyl,

(19) aryl C_{0-6} alkoxy C_{0-6}alkyl,

(20) hydroxycarbonyl C_{0-6}alkyl,

(21) C_{1-6} alkoxycarbonyl C_{0-6}alkyl,

(22) aryl C_{0-6} alkoxycarbonyl C_{0-6}alkyl,

(23) hydroxycarbonyl C_{1-6} alkyloxy,

(24) hydroxy C_{0-6}alkyl,

(25) cyano,

(26) nitro,

(27) perfluoroC_{1-4}alkyl,

(28) perfluoroC_{1-4}alkoxy,
(29) C_{1-6} alkylcarbonyloxy,
(30) aryl C_{0-6}alkylcarbonyloxy,
(31) alkyl C_{1-6} carbonylamino,
(32) aryl C_{0-6} alkylcarbonylamino,
(33) C_{1-6} alkylsulfonylamino,
(34) aryl C_{0-6}alkylsulfonylamino,
(35) C_{1-6} alkoxycarbonylamino,
(36) aryl C_{0-6} alkoxycarbonylamino,
(37) C_{1-6}alkylaminocarbonylamino,
(38) aryl C_{0-6}alkylaminocarbonylamino,
(39) $(C_{1-6}alkyl)_2$ aminocarbonylamino,
(40) (aryl C_{0-6}alkyl)$_2$ aminocarbonylamino,
(41) $(C_{1-6}alkyl)_2$ aminocarbonyloxy,
(42) C_{0-6} alkyl carbonyl C $_{0-6}$ alkyl,
(43) aryl C_{0-6} alkyl carbonyl C $_{0-6}$ alkyl, and
(44) (aryl C_{0-6}alkyl)$_2$ aminocarbonyloxy;

(B) C_{1-8} alkyl, unsubstituted or substituted with one to three substituents independently selected from:
(1) halogen,
(2) C_{1-8} alkyl,
(3) C_{3-8} cycloalkyl,
(4) C_{3-8} cycloheteroalkyl,
(5) amino,
(6) C_{1-6} alkylamino,
(7) (C_{1-6} alkyl)$_2$amino,
(8) aryl C_{0-6} alkylamino,
(9) (aryl C_{0-6} alkyl)$_2$amino,
(10) C_{1-6} alkylthio,
(11) aryl C_{0-6}alkylthio,
(12) C_{1-6} alkylsulfinyl,
(13) aryl C_{0-6}alkylsulfinyl,
(14) C_{1-6} alkylsulfonyl,
(15) aryl C_{0-6}alkylsulfonyl,

(16) C_{1-6} alkoxy,
(17) aryl C_{0-6} alkoxy,
(18) hydroxycarbonyl,
(19) C_{1-6} alkoxycarbonyl,
(20) aryl C_{0-6} alkoxycarbonyl,
(21) hydroxycarbonyl C_{1-6} alkyloxy,
(22) hydroxy,
(23) cyano,
(24) nitro,
(25) perfluoroC_{1-4}alkyl,
(26) perfluoroC_{1-4}alkoxy,
(27) oxo,
(28) C_{1-6} alkylcarbonyloxy,
(29) aryl C_{0-6}alkylcarbonyloxy,
(30) alkyl C_{1-6} carbonylamino,
(31) aryl C_{0-6} alkylcarbonylamino,
(32) C_{1-6} alkylsulfonylamino,
(33) aryl C_{0-6}alkylsulfonylamino,
(34) C_{1-6} alkoxycarbonylamino,
(35) aryl C_{0-6} alkoxycarbonylamino,
(36) C_{1-6}alkylaminocarbonylamino,
(37) aryl C_{0-6}alkylaminocarbonylamino,
(38) $(C_{1-6}alkyl)_2$ aminocarbonylamino,
(39) (aryl C_{0-6}alkyl)$_2$ aminocarbonylamino,
(40) $(C_{1-6}alkyl)_2$ aminocarbonyloxy,
(41) (aryl C_{0-6}alkyl)$_2$ aminocarbonyloxy, and
(42) spiro-C_{3-8}cycloalkyl;

(C) perfluoroC_{1-6} alkyl,

(D) aryl-C_{1-6} alkyl-, wherein aryl is unsubstituted or substituted with 1 to 3 substituents independently selected from:
(1) halogen,
(2) C_{1-8} alkyl,
(3) C_{3-8} cycloalkyl,
(4) aryl,

(5) aryl C_{1-3} alkyl-,
(6) amino,
(7) amino C_{1-6} alkyl-,
(8) C_{1-3} acylamino,
(9) C_{1-3} acylamino C_{1-6} alkyl,
(10) C_{1-6} alkylamino,
(11) C_{1-6} alkylamino C_{1-6} alkyl,
(12) di(C_{1-6}) alkylamino,
(13) di(C_{1-6}) alkylamino-C_{1-6} alkyl,
(14) C_{1-4} alkoxy,
(15) C_{1-4} alkylthio,
(16) C_{1-4} alkylsulfinyl,
(17) C_{1-4} alkylsulfonyl,
(18) C_{1-4} alkoxy C_{1-6} alkyl,
(19) hydroxycarbonyl,
(20) hydroxycarbonyl C_{1-6} alkyl,
(21) C_{1-5} alkoxycarbonyl,
(22) C_{1-3} alkoxycarbonyl C_{1-6} alkyl,
(23) hydroxycarbonyl C_{1-6} alkyloxy,
(24) hydroxy,
(25) hydroxy C_{1-6} alkyl,
(26) cyano,
(27) nitro,
(28) trifluoromethyl,
(29) trifluoromethoxy,
(30) C_{1-5} alkylcarbonyloxy;

and wherein alkyl is substituted with one to three substituents selected from:

(1) halogen,
(2) C_{3-8} cycloalkyl,
(3) C_{3-8} cycloheteroalkyl,
(4) amino,
(5) C_{1-6} alkylamino,
(6) (C_{1-6} alkyl)$_2$amino,
(7) aryl C_{0-6} alkylamino,

(8) (aryl C_{0-6} alkyl)$_2$amino,
(9) C_{1-6} alkylthio,
(10) aryl C_{0-6} alkylthio,
(11) C_{1-6} alkylsulfinyl,
(12) aryl C_{0-6}alkylsulfinyl,
(13) C_{1-6} alkylsulfonyl,
(14) aryl C_{0-6} alkylsulfonyl,
(15) C_{1-6} alkoxy,
(16) aryl C_{0-6} alkoxy,
(17) hydroxycarbonyl,
(18) C_{1-6} alkoxycarbonyl,
(19) aryl C_{0-6} alkoxycarbonyl,
(20) hydroxycarbonyl C_{1-6} alkyloxy,
(21) hydroxy,
(22) cyano,
(23) nitro,
(24) trifluoroalkyl,
(25) trifluoroalkoxy,
(26) oxo,
(27) C_{1-6} alkylcarbonyloxy,
(28) aryl C_{0-6} alkylcarbonyloxy,
(29) C_{1-6} alkyl carbonylamino,
(30) aryl C_{0-6} alkylcarbonylamino,
(31) C_{1-6} alkylsulfonylamino,
(32) aryl C_{0-6} alkylsulfonylamino,
(33) C_{1-6} alkoxycarbonylamino,
(34) aryl C_{0-6} alkoxycarbonylamino,
(35) C_{1-6} alkylaminocarbonylamino,
(36) aryl C_{0-6} alkylaminocarbonylamino,
(37) (C_{1-6} alkyl)$_2$ aminocarbonylamino,
(38) (aryl C_{0-6} alkyl)$_2$ aminocarbonylamino,
(39) (C_{1-6} alkyl)$_2$ aminocarbonyloxy,
(40) (aryl C_{0-6} alkyl)$_2$ aminocarbonyloxy, and
(41) spiro-C_{3-8} cycloalkyl;

(E) C_{2-8} alkenyl, unsubstituted or substituted with one to three substituents independently selected from:

(1) halogen,
(2) C_{1-8} alkyl,
(3) C_{3-8} cycloalkyl,
(4) C_{3-8} cycloheteroalkyl,
(5) amino,
(6) C_{1-6} alkylamino,
(7) $(C_{1-6}$ alkyl$)_2$amino,
(8) aryl C_{0-6} alkylamino,
(9) (aryl C_{0-6} alkyl$)_2$amino,
(10) C_{1-6} alkylthio,
(11) aryl C_{0-6}alkylthio,
(12) C_{1-6} alkylsulfinyl,
(13) aryl C_{0-6}alkylsulfinyl,
(14) C_{1-6} alkylsulfonyl,
(15) aryl C_{0-6}alkylsulfonyl,
(16) C_{1-6} alkoxy,
(17) aryl C_{0-6} alkoxy,
(18) hydroxycarbonyl,
(19) C_{1-6} alkoxycarbonyl,
(20) aryl C_{0-6} alkoxycarbonyl,
(21) hydroxycarbonyl C_{1-6} alkyloxy,
(22) hydroxy,
(23) cyano,
(24) nitro,
(25) perfluoroC_{1-4}alkyl,
(26) perfluoroC_{1-4}alkoxy,
(27) oxo,
(28) C_{1-6} alkylcarbonyloxy,
(29) aryl C_{0-6}alkylcarbonyloxy,
(30) alkyl C_{1-6} carbonylamino,
(31) aryl C_{0-6} alkylcarbonylamino,
(32) C_{1-6} alkylsulfonylamino,

(33) aryl C_{0-6}alkylsulfonylamino,
(34) C_{1-6} alkoxycarbonylamino,
(35) aryl C_{0-6} alkoxycarbonylamino,
(36) C_{1-6}alkylaminocarbonylamino,
(37) aryl C_{0-6}alkylaminocarbonylamino,
(38) $(C_{1-6}alkyl)_2$ aminocarbonylamino,
(39) (aryl C_{0-6}alkyl)$_2$ aminocarbonylamino,
(40) $(C_{1-6}alkyl)_2$ aminocarbonyloxy,
(41) (aryl C_{0-6}alkyl)$_2$ aminocarbonyloxy, and
(42) spiro-C_{3-8}cycloalkyl;

(F) aryl C_{2-8} alkenyl, wherein aryl is unsubstituted or substituted with one to three substituents independently selected from:

(1) halogen,
(2) C_{1-8} alkyl,
(3) C_{3-8} cycloalkyl,
(4) aryl,
(5) aryl C_{1-3} alkyl-,
(6) amino,
(7) amino C_{1-6} alkyl-,
(8) C_{1-3} acylamino,
(9) C_{1-3} acylamino C_{1-6} alkyl,
(10) C_{1-6} alkylamino,
(11) C_{1-6} alkylamino C_{1-6} alkyl,
(12) di(C_{1-6}) alkylamino,
(13) di(C_{1-6}) alkylamino-C_{1-6} alkyl,
(14) C_{1-4} alkoxy,
(15) C_{1-4} alkylthio,
(16) C_{1-4} alkylsulfinyl,
(17) C_{1-4} alkylsulfonyl,
(18) C_{1-4} alkoxy C_{1-6} alkyl,
(19) hydroxycarbonyl,
(20) hydroxycarbonyl C_{1-6} alkyl,
(21) C_{1-5} alkoxycarbonyl,
(22) C_{1-3} alkoxycarbonyl C_{1-6} alkyl,

(23) hydroxycarbonyl C_{1-6} alkyloxy,
(24) hydroxy,
(25) hydroxy C_{1-6} alkyl,
(26) cyano,
(27) nitro,
(28) trifluoromethyl,
(29) trifluoromethoxy, and
(30) C_{1-5} alkylcarbonyloxy;

(G) C_{3-8} cycloalkyl, either unsubstituted or substituted with one to 3 substituents selected from:
(1) halogen,
(2) aryl,
(3) C_{1-8} alkyl,
(4) C_{3-8} cycloalkyl,
(5) C_{3-8} cycloheteroalkyl,
(6) aryl C_{1-6}alkyl,
(7) amino C_{0-6}alkyl,
(8) C_{1-6} alkylamino C_{0-6}alkyl,
(9) (C_{1-6} alkyl)$_2$amino C_{0-6}alkyl,
(10) aryl C_{0-6} alkylamino C_{0-6}alkyl,
(11) (aryl C_{0-6} alkyl)$_2$amino C_{0-6}alkyl,
(12) C_{1-6} alkylthio,
(13) aryl C_{0-6}alkylthio,
(14) C_{1-6} alkylsulfinyl,
(15) aryl C_{0-6}alkylsulfinyl,
(16) C_{1-6} alkylsulfonyl,
(17) aryl C_{0-6}alkylsulfonyl,
(18) C_{1-6} alkoxy C_{0-6}alkyl,
(19) aryl C_{0-6} alkoxy C_{0-6}alkyl,
(20) hydroxycarbonyl C_{0-6}alkyl,
(21) C_{1-6} alkoxycarbonyl C_{0-6}alkyl,
(22) aryl C_{0-6} alkoxycarbonyl C_{0-6}alkyl,
(23) hydroxycarbonyl C_{1-6} alkyloxy,
(24) hydroxy C_{0-6}alkyl,

(25) cyano,
(26) nitro,
(27) perfluoroC_{1-4}alkyl,
(28) perfluoroC_{1-4}alkoxy,
(29) oxo,
(30) C_{1-6} alkylcarbonyloxy,
(31) aryl C_{0-6}alkylcarbonyloxy,
(32) alkyl C_{1-6} carbonylamino,
(33) aryl C_{0-6} alkylcarbonylamino,
(34) C_{1-6} alkylsulfonylamino,
(35) aryl C_{0-6}alkylsulfonylamino,
(36) C_{1-6} alkoxycarbonylamino,
(37) aryl C_{0-6} alkoxycarbonylamino,
(38) C_{1-6}alkylaminocarbonylamino,
(39) aryl C_{0-6}alkylaminocarbonylamino,
(40) $(C_{1-6}alkyl)_2$ aminocarbonylamino,
(41) (aryl C_{0-6}alkyl)$_2$ aminocarbonylamino,
(42) $(C_{1-6}alkyl)_2$ aminocarbonyloxy,
(43) (aryl C_{0-6}alkyl)$_2$ aminocarbonyloxy,
(44) C $_{0-6}$ alkylcarbonly C $_{0-6}$ alky, and
(45) spiro-C_{3-8}cycloalkyl;

(H) cycloheteroalkyl, unsubstituted or substituted with one to three substituents selected from:
(1) halogen,
(2) aryl,
(3) C_{1-8} alkyl,
(4) C_{3-8} cycloalkyl,
(5) C_{3-8} cycloheteroalkyl,
(6) aryl C_{1-6}alkyl,
(7) amino C_{0-6}alkyl,
(8) C_{1-6} alkylamino C_{0-6}alkyl,
(9) (C_{1-6} alkyl)$_2$amino C_{0-6}alkyl,
(10) aryl C_{0-6} alkylamino C_{0-6}alkyl,
(11) (aryl C_{0-6} alkyl)$_2$amino C_{0-6}alkyl,

(12) C_{1-6} alkylthio,
(13) aryl C_{0-6}alkylthio,
(14) C_{1-6} alkylsulfinyl,
(15) aryl C_{0-6}alkylsulfinyl,
(16) C_{1-6} alkylsulfonyl,
(17) aryl C_{0-6}alkylsulfonyl,
(18) C_{1-6} alkoxy C_{0-6}alkyl,
(19) aryl C_{0-6} alkoxy C_{0-6}alkyl,
(20) hydroxycarbonyl C_{0-6}alkyl,
(21) C_{1-6} alkoxycarbonyl C_{0-6}alkyl,
(22) aryl C_{0-6} alkoxycarbonyl C_{0-6}alkyl,
(23) hydroxycarbonyl C_{1-6} alkyloxy,
(24) hydroxy C_{0-6}alkyl,
(25) cyano,
(26) nitro,
(27) perfluoroC_{1-4}alkyl,
(28) perfluoroC_{1-4}alkoxy,
(29) oxo,
(30) C_{1-6} alkylcarbonyloxy,
(31) aryl C_{0-6}alkylcarbonyloxy,
(32) alkyl C_{1-6} carbonylamino,
(33) aryl C_{0-6} alkylcarbonylamino,
(34) C_{1-6} alkylsulfonylamino,
(35) aryl C_{0-6}alkylsulfonylamino,
(36) C_{1-6} alkoxycarbonylamino,
(37) aryl C_{0-6} alkoxycarbonylamino,
(38) C_{1-6}alkylaminocarbonylamino,
(39) aryl C_{0-6}alkylaminocarbonylamino,
(40) $(C_{1-6}alkyl)_2$ aminocarbonylamino,
(41) (aryl C_{0-6}alkyl)$_2$ aminocarbonylamino,
(42) $(C_{1-6}alkyl)_2$ aminocarbonyloxy,
(43) (aryl C_{0-6}alkyl)$_2$ aminocarbonyloxy, and
(44) spiro-C_{3-8}cycloalkyl;

provided that any heteroatom substituent is bonded to a carbon atom in the cycloheteroalkyl ring;

R^3 is selected from H, perfluoro C_{1-8} alkyl, and C_{1-8} alkyl, unsubstituted or substituted with one to three halogen atoms, or R^2 and R^3, together with the nitrogen atom, and the "X" moiety to which they are attached, form a 5- to 7-membered heterocyclic ring, optionally containing one or two additional heteroatoms selected from N, S, and O, optionally having one or more degrees of unsaturation, optionally fused to a 6-membered heteroaromatic or aromatic ring, either unsubstituted or substituted with one to three substituents selected from:

(1) halogen,
(2) aryl,
(3) C_{1-8} alkyl,
(4) C_{3-8} cycloalkyl,
(5) C_{3-8} cycloheteroalkyl,
(6) aryl C_{1-6}alkyl,
(7) amino C_{0-6}alkyl,
(8) C_{1-6} alkylamino C_{0-6}alkyl,
(9) (C_{1-6} alkyl)$_2$amino C_{0-6}alkyl,
(10) aryl C_{0-6} alkylamino C_{0-6}alkyl,
(11) (aryl C_{0-6} alkyl)$_2$amino C_{0-6}alkyl,
(12) C_{1-6} alkylthio,
(13) aryl C_{0-6}alkylthio,
(14) C_{1-6} alkylsulfinyl,
(15) aryl C_{0-6}alkylsulfinyl,
(16) C_{1-6} alkylsulfonyl,
(17) aryl C_{0-6}alkylsulfonyl,
(18) C_{1-6} alkoxy C_{0-6}alkyl,
(19) aryl C_{0-6} alkoxy C_{0-6}alkyl,
(20) hydroxycarbonyl C_{0-6}alkyl,
(21) C_{1-6} alkoxycarbonyl C_{0-6}alkyl,
(22) aryl C_{0-6} alkoxycarbonyl C_{0-6}alkyl,
(23) hydroxycarbonyl C_{1-6} alkyloxy,
(24) hydroxy C_{0-6}alkyl,
(25) cyano,
(26) nitro,

(27) perfluoroC_{1-4}alkyl,
(28) perfluoroC_{1-4}alkoxy,
(29) oxo,
(30) C_{1-6} alkylcarbonyloxy,
(31) aryl C_{0-6}alkylcarbonyloxy,
(32) C_{1-6} alkyl carbonylamino,
(33) aryl C_{0-6} alkylcarbonylamino,
(34) C_{1-6} alkylsulfonylamino,
(35) aryl C_{0-6}alkylsulfonylamino,
(36) C_{1-6} alkoxycarbonylamino,
(37) aryl C_{0-6} alkoxycarbonylamino,
(38) C_{1-6}alkylaminocarbonylamino,
(39) aryl C_{0-6}alkylaminocarbonylamino,
(40) $(C_{1-6}alkyl)_2$ aminocarbonylamino,
(41) (aryl C_{0-6}alkyl)$_2$ aminocarbonylamino,
(42) $(C_{1-6}alkyl)_2$ aminocarbonyloxy,
(43) (aryl C_{0-6}alkyl)$_2$ aminocarbonyloxy, and
(44) spiro-C_{3-8}cycloalkyl,

provided that any heteroatom substituent is bonded to a carbon atom in the heterocyclic ring;

R^4 and R^5 are each independently selected from

(1) hydrogen,
(2) halogen,
(3) aryl,
(4) C_{1-8} alkyl,
(5) C_{3-8} cycloalkyl,
(6) C_{3-8} cycloheteroalkyl,
(7) aryl C_{1-6}alkyl,
(8) amino C_{0-6}alkyl,
(9) C_{1-6} alkylamino C_{0-6}alkyl,
(10) $(C_{1-6}$ alkyl)$_2$amino C_{0-6}alkyl,
(11) aryl C_{0-6} alkylamino C_{0-6}alkyl,
(12) (aryl C_{0-6} alkyl)$_2$amino C_{0-6}alkyl,
(13) C_{1-6} alkylthio,

(14) aryl C_{0-6}alkylthio,
(15) C_{1-6} alkylsulfinyl,
(16) aryl C_{0-6}alkylsulfinyl,
(17) C_{1-6} alkylsulfonyl,
(18) aryl C_{0-6}alkylsulfonyl,
(19) C_{1-6} alkoxy C_{0-6}alkyl,
(20) aryl C_{0-6} alkoxy C_{0-6}alkyl,
(21) hydroxycarbonyl C_{0-6}alkyl,
(22) C_{1-6} alkoxycarbonyl C_{0-6}alkyl,
(23) aryl C_{0-6} alkoxycarbonyl C_{0-6}alkyl,
(24) hydroxycarbonyl C_{1-6} alkyloxy,
(25) hydroxy C_{0-6}alkyl,
(26) cyano,
(27) nitro,
(28) perfluoroC_{1-4}alkyl,
(29) perfluoroC_{1-4}alkoxy,
(30) C_{1-6} alkylcarbonyloxy,
(31) aryl C_{0-6}alkylcarbonyloxy,
(32) C_{1-6} alkylcarbonylamino,
(33) aryl C_{0-6} alkylcarbonylamino,
(34) C_{1-6} alkylsulfonylamino,
(35) aryl C_{0-6}alkylsulfonylamino,
(36) C_{1-6} alkoxycarbonylamino,
(37) aryl C_{0-6} alkoxycarbonylamino,
(38) C_{1-6}alkylaminocarbonylamino,
(39) aryl C_{0-6}alkylaminocarbonylamino,
(40) $(C_{1-6}alkyl)_2$ aminocarbonylamino,
(41) (aryl C_{0-6}alkyl)$_2$ aminocarbonylamino,
(42) $(C_{1-6}alkyl)_2$ aminocarbonyloxy,
(44) (aryl C_{0-6}alkyl)$_2$ aminocarbonyloxy, and
(45) spiro-C_{3-8}cycloalkyl;

or, R^4 and R^5 together form an oxo group or =CH-R^6 or a spiro C $_{3-7}$ cycloalkyl ring substituted with R^6;

R^6 is selected from hydrogen and C_{1-4} alkyl;

R^7 is selected from hydrogen, perfluoro C_{1-8} alkyl, and C_{1-8} alkyl, unsubstituted or substituted with one to three halogen atoms.
n is selected from: 0, 1, and 2;
and pharmaceutically acceptable salts thereof.

2. **(Original)** The method according to Claim 1, wherein:
"b" is a single bond, and "a" is a double bond;
X is selected from:

(A) -C(O)-,
(B) –C(O)-O-,
(C) –C(O)-N(R^7)-,and
(D) –$S(O)_n$-;

R^1 is methyl;
R^2 is selected from:
(A) aryl, substituted by one substituents selected from:
(1) fluoro,
(2) chloro,
(3) bromo,
(4) methyl,
(5) methoxy,
(6) ethoxy,
(7) hydroxy,
(8) trifluoromethyl,
(9) trifluoromethoxy, and
(10) acetyl;
(B) C_{1-6} alkyl, unsubstituted or substituted with one or two substituents independently selected from:
(1) fluoro,
(2) chloro,
(3) cyano,
(4) methoxy,
(5) hydroxy, and
(6) trifluoromethyl;
(C) trifluoromethyl;

(D) phenyl-C_{1-6} alkyl-, wherein phenyl is unsubstituted or substituted with one or two substituents independently selected from:
  (1) halogen,
  (2) methyl,
  (3) C_{1-2} alkoxy,
  (4) hydroxy,
  (5) nitro,
  (6) trifluoromethyl, and
  (7) trifluoromethoxy;.

(E) C_{2-3} alkenyl;

(F) phenyl C_2alkenyl, wherein phenyl is unsubstituted or substituted with a substituent selected from:
  (1) halogen,
  (2) methyl, and
  (3) trifluoromethyl;

(G) cycloheteroalkyl, either unsubstituted or substituted with one or two substituents selected from:
  (1) fluoro,
  (2) phenyl,
  (3) C_{1-4} alkyl,
  (4) C_{1-3} alkoxy,
  (5) hydroxy,
  (6) trifluoromethyl,
  (7) oxo, and
  (8) spiro C_{3-8} cycloalkyl;

provided that any heteroatom substituent is bonded to a carbon atom in the cycloheteroalkyl ring;

R^3 is hydrogen;

R^4 and R^5 are each hydrogen;

R^6 is hydrogen;

R^7 is hydrogen,

n is 2;

and pharmaceutically acceptable salts thereof.

3. **(Original)** The method according to Claim 1 wherein the androgen receptor is antagonized in the prostate of a male patient or in the uterus of a female patient and agonized in bone or muscle tissue.

4. **(Original)** The method according to Claim 1 wherein modulating the androgen receptor in a tissue selective manner comprises agonizing the androgen receptor.

5. **(Original)** A method of treating a condition which is caused by androgen deficiency or which can be ameliorated by androgen administration selected from: osteoporosis, osteopenia, glucocorticoid-induced osteoporosis, periodontal disease, HIV-wasting, cancer cachexia, bone fracture, bone damage following bone reconstructive surgery, muscular dystrophies, sarcopenia, frailty, aging skin, male hypogonadism, post-menopausal symptoms in women, female sexual dysfunction, premature ovarian failure, autoimmune disease, atherosclerosis, hypercholesterolemia, hyperlipidemia, aplastic anemia and other hematopoietic disorders, pancreatic cancer, renal cancer, arthritis and joint repair, in a patient in need of such treatment, comprising modulating the androgen receptor in said patient according to the method of Claim 1.

6. **(Original)** The method according to Claim 5 wherein the condition is osteoporosis.

7. **(Original)** The method according to Claim 6 wherein:

"b" is a single bond, and "a" is a double bond;

X is selected from:

(A) -C(O)-,

(B) –C(O)-O-,

(C) –C(O)-N(R^7)-,and

(D) –S(O)$_n$-;

R^1 is methyl;

R^2 is selected from:

(A) aryl, substituted by one substituents selected from:

(1) fluoro,

(2) chloro,

(3) bromo,

(4) methyl,

(5) methoxy,

(6) ethoxy,
(7) hydroxy,
(8) trifluoromethyl,
(9) trifluoromethoxy, and
(10) acetyl;

(B) C_{1-6} alkyl, unsubstituted or substituted with one or two substituents independently selected from:
(1) fluoro,
(2) chloro,
(3) cyano,
(4) methoxy,
(5) hydroxy, and
(6) trifluoromethyl;

(C) trifluoromethyl;

(D) phenyl-C_{1-6} alkyl-, wherein phenyl is unsubstituted or substituted with one or two substituents independently selected from:
(1) halogen,
(2) methyl,
(3) C_{1-2} alkoxy,
(4) hydroxy,
(5) nitro,
(6) trifluoromethyl, and
(7) trifluoromethoxy;.

(E) C_{2-3} alkenyl;

(F) phenyl C_2alkenyl, wherein phenyl is unsubstituted or substituted with a substituent selected from:
(1) halogen,
(2) methyl, and
(3) trifluoromethyl;

(G) cycloheteroalkyl, either unsubstituted or substituted with one or two substituents selected from:
(1) fluoro,
(2) phenyl,
(3) C_{1-4} alkyl,

(4) C_{1-3} alkoxy,

(5) hydroxy,

(6) trifluoromethyl,

(7) oxo, and

(8) spiro C_{3-8} cycloalkyl;

provided that any heteroatom substituent is bonded to a carbon atom in the cycloheteroalkyl ring;

R^3 is hydrogen;

R^4 and R^5 are each hydrogen;

R^6 is hydrogen;

R^7 is hydrogen,

n is 2;

and pharmaceutically acceptable salts thereof.

8. **(Presently amended)** The method according to Claim 7 wherein the compound is selected from:

(1) 4-methyl-17β–(2-trifluoromethylbenzamido)-4-aza-5α-androst-1-ene-3-one;

(2) 4-methyl-17β–(3-trifluoromethylbenzamido)-4-aza-5α-androst-1-ene-3-one;

(3) 4-methyl-17β–(2-methoxybenzamido)-4-aza-5α-androst-1-ene-3-one;

(4) 4-methyl-17β–(3-methoxybenzamido)-4-aza-5α-androst-1-ene-3-one;

(5) 4-methyl-17β–(4-methoxybenzamido)-4-aza-5α-androst-1-ene-3-one;

(6) 4-methyl-17β–(4-cyanobenzamido)-4-aza-5α-androst-1-ene-3-one;

(7) 4-methyl-17β–(2-chloro-pyrid-3-yl-amido)-4-aza-5α-androst-1-ene-3-one;

(8) 4-methyl-17β–(pyrid-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;

(9) 4-methyl-17β–(pyrid-4-yl-amido)-4-aza-5α-androst-1-ene-3-one;

(10) 4-methyl-17β–(4-(carboxymethyl)benzamido)-4-aza-5α-androst-1-ene-3-one;

(11) 4-methyl-17β–(pyrid-3-yl-amido)-4-aza-5α-androst-1-ene-3-one;

(12) 4-methyl-17β–(2-fluorobenzamido)-4-aza-5α-androst-1-ene-3-one;

(13) 4-methyl-17β–(3-fluorobenzamido)-4-aza-5α-androst-1-ene-3-one;

(14) 4-methyl-17β–(4-fluorobenzamido)-4-aza-5α-androst-1-ene-3-one;

(15) 4-methyl-17β–(2,4-difluorobenzamido)-4-aza-5α-androst-1-ene-3-one;

(16) 4-methyl-17β–(4-chlorobutyramido)-4-aza-5α-androst-1-ene-3-one;

(17) 4-methyl-17β–(4-bromobutyramido)-4-aza-5α-androst-1-ene-3-one;

(18) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]- 2-bromoethyl ester;

(19) 4-methyl-17β–(2-methylpropamido)-4-aza-5α-androst-1-ene-3-one;

(20) 4-methyl-17β–(2-methoxyacetamido)-4-aza-5α-androst-1-ene-3-one;
(21) 4-methyl-17β–(cyclopropamido)-4-aza-5α-androst-1-ene-3-one;
(22) 4-methyl-17β–(acetamido)-4-aza-5α-androst-1-ene-3-one;
(23) 4-methyl-17β–(trifluoroacetamido)-4-aza-5α-androst-1-ene-3-one;
(24) 4-methyl-17β–(3,3,3-trifluoropropionamido)-4-aza-5α-androst-1-ene-3-one;
(25) 4-methyl-17β–(2-cyanoacetamido)-4-aza-5α-androst-1-ene-3-one;
(26) 4-methyl-17β–(2-methyl-2-hydroxypropamido)-4-aza-5α-androst-1-ene-3-one;
(27) 4-methyl-17β–(thiazo-4-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(28) 4-methyl-17β–(pyrimid-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(29) 4-methyl-17β–(pyrimid-4-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(30) 4-methyl-17β–(oxazo-5-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(31) 4-methyl-17β–(1-methyl-imidazo-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(32) 4-methyl-17β–(furan-3-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(33) 4-methyl-17β–(furan-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(34) 4-methyl-17β–(thiophene-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(35) 4-methyl-17β–(thiophene-3-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(36) 4-methyl-17β–(pyridazin-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(37) 4-methyl-17β–(5-methyl-pyridin-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(38) 4-methyl-17β–(5-chloro-pyridin-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(39) 4-methyl-17β–(quinoline-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(40) 4-methyl-17β–(quinoline-8-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(41) 4-methyl-17β–(isoquinoline-8-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(42) 4-methyl-17β–(2-chlorobenzamido)-4-aza-5α-androst-1-ene-3-one;
(43) 4-methyl-17β–(3-chlorobenzamido)-4-aza-5α-androst-1-ene-3-one;
(44) 4-methyl-17β–(4-chlorobenzamido)-4-aza-5α-androst-1-ene-3-one;
(45) 4-methyl-17β–(formamido)-4-aza-5α-androst-1-ene-3-one;
(46) 4-methyl-17β–[(2-trifluoromethylphenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(47) 4-methyl-17β–[(4-trifluoromethylphenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(48) 4-methyl-17β–[(2-chlorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(49) 4-methyl-17β–[(3-chlorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(50) 4-methyl-17β–[(4-chlorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(51) 4-methyl-17β–[(2,4-dichlorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(52) 4-methyl-17β–[(3-fluorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(53) 4-methyl-17β–[(4-fluorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;

(54) 4-methyl-17β–[(2-methoxyphenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(55) 4-methyl-17β–[(3-methoxyphenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(56) 4-methyl-17β–[(2,5-dimethoxyphenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(57) 4-methyl-17β–[(3,5-difluorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(58) 4-methyl-17β–[(3-nitrophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(59) 4-methyl-17β–(tetrahydrofuran-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(60) 4-methyl-17β–(tetrahydrofuran-3-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(61) 4-methyl-17β–(4-ethyl-pyridin-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(62) 4-methyl-17β–(3-methyl-pyridin-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(63) 4-methyl-17β–(3-bromo-pyridin-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(64) 4-methyl-17β–(4-bromo-pyridin-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(65) 4-methyl-17β–[(2-phenylcyclopropyl)amido]-4-aza-5α-androst-1-ene-3-one;
(66) 4-methyl-17β–[(2-fluorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(67) 4-methyl-17β–[(pyrid-2-yl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(68) 4-methyl-17β–[(pyrid-3-yl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(69) 4-methyl-17β–[(4-methoxyphenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(70) 4-methyl-17β–[3–(2-fluorophenyl)propionamido]-4-aza-5α-androst-1-ene-3-one;
(71) 4-methyl-17β–[3–(4-fluorophenyl)propionamido]-4-aza-5α-androst-1-ene-3-one;
(72) 4-methyl-17β–[3–(4-rifluoromethylphenyl)propionamido]-4-aza-5α-androst-1-ene-3- one;
(73) 4-methyl-17β–[3–(2-chlorophenyl)propionamido]-4-aza-5α-androst-1-ene-3-one;
(74) 4-methyl-17β–[3–(3-chlorophenyl)propionamido]-4-aza-5α-androst-1-ene-3-one;
(75) 4-methyl-17β–[3–(4-chlorophenyl)propionamido]-4-aza-5α-androst-1-ene-3-one;
(76) 4-methyl-17β-[2-trifluoromethylcinnamido]-4-aza-5α-androst-1-ene-3-one;
(77) 4-methyl-17β-[2-chlorocinnamido]-4-aza-5α-androst-1-ene-3-one;
(78) 4-methyl-17β-[2-fluorocinnamido]-4-aza-5α-androst-1-ene-3-one;
(79) 4-methyl-17β-[4-(2,5-dichlorophenyl)butanamido]-4-aza-5α-androst-1-ene-3-one;
(80) 4-methyl-17β-[4-(2-nitrophenyl)butanamido]-4-aza-5α-androst-1-ene-3-one;
(81) 4-methyl-17β-[4-(3,4-dimethoxyphenyl)butanamido]-4-aza-5α-androst-1-ene-3-one;
(82) 4-methyl-17β-[propionamido]-4-aza-5α-androst-1-ene-3-one;
(83) 4-methyl-17β-[butyramido]-4-aza-5α-androst-1-ene-3-one;
(84) 4-methyl-17β-[(2-methyl)cyclopropamido]-4-aza-5α-androst-1-ene-3-one;
(85) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-phenyl ester;
(86) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-chlorophenyl ester;
(87) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-nitrophenyl ester;

(88) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-methylphenyl ester;
(89) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-bromophenyl ester;
(90) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-fluorophenyl ester;
(91) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-methoxophenyl ester;
(92) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-nitrophenyl ester;
(93) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-naphthyl ester;
(94) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-trifluoromethylphenyl ester;
(95) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-ethyl ester;
(96) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-benzyl ester;
(97) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2,2,2-trifluoroethyl ester;
(98) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-methoxyethyl ester;
(99) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-(2,2-dimethylpropy) ester;
(100) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-fluoroethyl ester;
(101) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-allyl ester;
(102) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-methyl ester;
(103) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-1-propynoic ester;
(104) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-(2-methyl-2-butyl) ester;
(105) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-(trifluoromethyl)phenyl ester;
(106) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-(trifluoromethyl)phenyl ester;
(107) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-fluorophenyl ester;
(108) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-fluorophenyl ester;
(109) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-(2-hydroxy-1-ethyl) ester;
(110) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-methoxyphenyl ester;
(111) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-methoxyphenyl ester;
(112) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-ethoxyphenyl ester;
(113) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-ethoxyphenyl ester;
(114) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-ethoxyphenyl ester;

(115) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-chlorophenyl ester;
(116) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-chlorophenyl ester;
(117) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-(trifluoromethoxy)phenyl ester;
(118) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-(trifluoromethoxy)phenyl ester;
(119) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-propyl ester;
(120) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-1-propyl ester;
(121) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-1-butyl ester;
(122) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-1-hexyl ester;
(123) 4-methyl-17β-(phenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(124) 4-methyl-17β-(2-trifluoromethylphenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(125) 4-methyl-17β-(3-trifluoromethylphenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(126) 4-methyl-17β-(2-chlorophenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(127) 4-methyl-17β-(3-chlorophenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(128) 4-methyl-17β-(2-trifluoromethoxyphenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(129) 4-methyl-17β-(2-cyanophenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(130) 4-methyl-17β-(4-methoxyphenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(131) 4-methyl-17β-(3-bromo-5--methoxyphenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(132) 4-methyl-17β-(8-quinolylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(133) 4-methyl-17β-(3-cyanophenylsulfonamido)-4-aza-5α–androst-1-ene-3-one;
(134) 4-methyl-17β-(4-chlorophenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(135) 4-methyl-17β-[(2-methylsufonyl)phenyl]sulfonamido)-4-aza-5α-androst-1-ene-3-one;
(136) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- phenyl urea;
(137) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (2-trifluoromethyl)phenyl urea;
(138) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (3-trifluoromethyl)phenyl urea;
(139) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- 3-chlorophenyl urea;
(140) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (4-chloro-2-trifluoromethylphenyl) urea;
(141) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- 3-acetylphenyl urea;
(142) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (5-chloro-2-trifluoromethylphenyl) urea;
(143) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (2,4-[bistrifluoromethyl]phenyl) urea;

(144) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (3,4-difluorophenyl) urea;
(145) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (2,3-dichlorophenyl) urea;
(146) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (2,4-dichlorophenyl) urea;
(147) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (3,4-dichlorophenyl) urea;
(148) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-2-chlorophenyl) urea;
(149) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (2-chloro-5-trifluoromethylphenyl) urea;
(150) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (4-chloro-3-trifluoromethylphenyl) urea;
(151) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(4-trifluoromethyl)phenyl urea;
(152) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(2,3-dimethylphenyl) urea;
(153) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-methyl urea;
(154) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-ethyl urea;
(155) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-dimethyl urea;
(156) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-diethyl urea;
(157) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl] urea;

~~(147) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (3,4-dichlorophenyl) urea;~~
~~(148) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-2-chlorophenyl) urea;~~
~~(149) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (2-chloro-5-trifluoromethylphenyl) urea;~~
~~(150) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (4-chloro-3-trifluoromethylphenyl) urea;~~
~~(151) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(4-trifluoromethyl)phenyl urea;~~
~~(152) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(2,3-dimethylpheny) urea;~~
~~(153) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-methyl urea;~~
~~(154) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-ethyl urea;~~
~~(155) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-dimethyl urea;~~
~~(156) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-diethyl urea;~~
~~(157) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl] urea;~~

and pharmaceutically acceptable salts thereof.

9. **(Presently amended)** The method according to Claim 1 wherein the compound is selected from:

(1) 4-methyl-17β–(2-trifluoromethylbenzamido)-4-aza-5α-androst-1-ene-3-one;
(2) 4-methyl-17β–(3-trifluoromethylbenzamido)-4-aza-5α-androst-1-ene-3-one;
(3) 4-methyl-17β–(2-methoxybenzamido)-4-aza-5α-androst-1-ene-3-one;
(4) 4-methyl-17β–(3-methoxybenzamido)-4-aza-5α-androst-1-ene-3-one;
(5) 4-methyl-17β–(4-methoxybenzamido)-4-aza-5α-androst-1-ene-3-one;
(6) 4-methyl-17β–(4-cyanobenzamido)-4-aza-5α-androst-1-ene-3-one;
(7) 4-methyl-17β–(2-chloro-pyrid-3-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(8) 4-methyl-17β–(pyrid-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(9) 4-methyl-17β–(pyrid-4-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(10) 4-methyl-17β–(4-(carboxymethyl)benzamido)-4-aza-5α-androst-1-ene-3-one;
(11) 4-methyl-17β–(pyrid-3-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(12) 4-methyl-17β–(2-fluorobenzamido)-4-aza-5α-androst-1-ene-3-one;
(13) 4-methyl-17β–(3-fluorobenzamido)-4-aza-5α-androst-1-ene-3-one;
(14) 4-methyl-17β–(4-fluorobenzamido)-4-aza-5α-androst-1-ene-3-one;
(15) 4-methyl-17β–(2,4-difluorobenzamido)-4-aza-5α-androst-1-ene-3-one;
(16) 4-methyl-17β–(4-chlorobutyramido)-4-aza-5α-androst-1-ene-3-one;
(17) 4-methyl-17β–(4-bromobutyramido)-4-aza-5α-androst-1-ene-3-one;
(18) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]- 2-bromoethyl ester;
(19) 4-methyl-17β–(2-methylpropamido)-4-aza-5α-androst-1-ene-3-one;
(20) 4-methyl-17β–(2-methoxyacetamido)-4-aza-5α-androst-1-ene-3-one;
(21) 4-methyl-17β–(cyclopropamido)-4-aza-5α-androst-1-ene-3-one;
(22) 4-methyl-17β–(acetamido)-4-aza-5α-androst-1-ene-3-one;
(23) 4-methyl-17β–(trifluoroacetamido)-4-aza-5α-androst-1-ene-3-one;
(24) 4-methyl-17β–(3,3,3-trifluoropropionamido)-4-aza-5α-androst-1-ene-3-one;
(25) 4-methyl-17β–(2-cyanoacetamido)-4-aza-5α-androst-1-ene-3-one;
(26) 4-methyl-17β–(2-methyl-2-hydroxypropamido)-4-aza-5α-androst-1-ene-3-one;
(27) 4-methyl-17β–(thiazo-4-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(28) 4-methyl-17β–(pyrimid-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(29) 4-methyl-17β–(pyrimid-4-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(30) 4-methyl-17β–(oxazo-5-yl-amido)-4-aza-5α-androst-1-ene-3-one;

(31) 4-methyl-17β–(1-methyl-imidazo-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(32) 4-methyl-17β–(furan-3-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(33) 4-methyl-17β–(furan-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(34) 4-methyl-17β–(thiophene-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(35) 4-methyl-17β–(thiophene-3-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(36) 4-methyl-17β–(pyridazin-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(37) 4-methyl-17β–(5-methyl-pyridin-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(38) 4-methyl-17β–(5-chloro-pyridin-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(39) 4-methyl-17β–(quinoline-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(40) 4-methyl-17β–(quinoline-8-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(41) 4-methyl-17β–(isoquinoline-8-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(42) 4-methyl-17β–(2-chlorobenzamido)-4-aza-5α-androst-1-ene-3-one;
(43) 4-methyl-17β–(3-chlorobenzamido)-4-aza-5α-androst-1-ene-3-one;
(44) 4-methyl-17β–(4-chlorobenzamido)-4-aza-5α-androst-1-ene-3-one;
(45) 4-methyl-17β–(formamido)-4-aza-5α-androst-1-ene-3-one;
(46) 4-methyl-17β–[(2-trifluoromethylphenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(47) 4-methyl-17β–[(4-trifluoromethylphenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(48) 4-methyl-17β–[(2-chlorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(49) 4-methyl-17β–[(3-chlorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(50) 4-methyl-17β–[(4-chlorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(51) 4-methyl-17β–[(2,4-dichlorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(52) 4-methyl-17β–[(3-fluorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(53) 4-methyl-17β–[(4-fluorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(54) 4-methyl-17β–[(2-methoxyphenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(55) 4-methyl-17β–[(3-methoxyphenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(56) 4-methyl-17β–[(2,5-dimethoxyphenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(57) 4-methyl-17β–[(3,5-difluorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(58) 4-methyl-17β–[(3-nitrophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(59) 4-methyl-17β–(tetrahydrofuran-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(60) 4-methyl-17β–(tetrahydrofuran-3-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(61) 4-methyl-17β–(4-ethyl-pyridin-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(62) 4-methyl-17β–(3-methyl-pyridin-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(63) 4-methyl-17β–(3-bromo-pyridin-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(64) 4-methyl-17β–(4-bromo-pyridin-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;

(65) 4-methyl-17β–[(2-phenylcyclopropyl)amido]-4-aza-5α-androst-1-ene-3-one;
(66) 4-methyl-17β–[(2-fluorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(67) 4-methyl-17β–[(pyrid-2-yl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(68) 4-methyl-17β–[(pyrid-3-yl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(69) 4-methyl-17β–[(4-methoxyphenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(70) 4-methyl-17β–[3–(2-fluorophenyl)propionamido]-4-aza-5α-androst-1-ene-3-one;
(71) 4-methyl-17β–[3–(4-fluorophenyl)propionamido]-4-aza-5α-androst-1-ene-3-one;
(72) 4-methyl-17β–[3–(4-rifluoromethylphenyl)propionamido]-4-aza-5α-androst-1-ene-3- one;
(73) 4-methyl-17β–[3–(2-chlorophenyl)propionamido]-4-aza-5α-androst-1-ene-3-one;
(74) 4-methyl-17β–[3–(3-chlorophenyl)propionamido]-4-aza-5α-androst-1-ene-3-one;
(75) 4-methyl-17β–[3–(4-chlorophenyl)propionamido]-4-aza-5α-androst-1-ene-3-one;
(76) 4-methyl-17β-[2-trifluoromethylcinnamido]-4-aza-5α-androst-1-ene-3-one;
(77) 4-methyl-17β-[2-chlorocinnamido]-4-aza-5α-androst-1-ene-3-one;
(78) 4-methyl-17β-[2-fluorocinnamido]-4-aza-5α-androst-1-ene-3-one;
(79) 4-methyl-17β-[4-(2,5-dichlorophenyl)butanamido]-4-aza-5α-androst-1-ene-3-one;
(80) 4-methyl-17β-[4-(2-nitrophenyl)butanamido]-4-aza-5α-androst-1-ene-3-one;
(81) 4-methyl-17β-[4-(3,4-dimethoxyphenyl)butanamido]-4-aza-5α-androst-1-ene-3-one;
(82) 4-methyl-17β-[propionamido]-4-aza-5α-androst-1-ene-3-one;
(83) 4-methyl-17β-[butyramido]-4-aza-5α-androst-1-ene-3-one;
(84) 4-methyl-17β-[(2-methyl)cyclopropamido]-4-aza-5α-androst-1-ene-3-one;
(85) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-phenyl ester;
(86) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-chlorophenyl ester;
(87) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-nitrophenyl ester;
(88) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-methylphenyl ester;
(89) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-bromophenyl ester;
(90) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-fluorophenyl ester;
(91) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-methoxophenyl ester;
(92) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-nitrophenyl ester;
(93) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-naphthyl ester;
(94) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-trifluoromethylphenyl ester;
(95) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-ethyl ester;
(96) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-benzyl ester;

(97) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2,2,2-trifluoroethyl ester;
(98) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-methoxyethyl ester;
(99) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-(2,2-dimethylpropy) ester;
(100) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-fluoroethyl ester;
(101) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-allyl ester;
(102) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-methyl ester;
(103) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-1-propynoic ester;
(104) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-(2-methyl-2-butyl) ester;
(105) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-(trifluoromethyl)phenyl ester;
(106) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-(trifluoromethyl)phenyl ester;
(107) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-fluorophenyl ester;
(108) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-fluorophenyl ester;
(109) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-(2-hydroxy-1-ethyl) ester;
(110) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-methoxyphenyl ester;
(111) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-methoxyphenyl ester;
(112) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-ethoxyphenyl ester;
(113) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-ethoxyphenyl ester;
(114) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-ethoxyphenyl ester;
(115) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-chlorophenyl ester;
(116) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-chlorophenyl ester;
(117) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-(trifluoromethoxy)phenyl ester;
(118) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-(trifluoromethoxy)phenyl ester;
(119) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-propyl ester;
(120) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-1-propyl ester;
(121) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-1-butyl ester;
(122) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-1-hexyl ester;

(123) 4-methyl-17β-(phenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(124) 4-methyl-17β-(2-trifluoromethylphenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(125) 4-methyl-17β-(3-trifluoromethylphenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(126) 4-methyl-17β-(2-chlorophenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(127) 4-methyl-17β-(3-chlorophenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(128) 4-methyl-17β-(2-trifluoromethoxyphenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(129) 4-methyl-17β-(2-cyanophenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(130) 4-methyl-17β-(4-methoxyphenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(131) 4-methyl-17β-(3-bromo-5--methoxyphenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(132) 4-methyl-17β-(8-quinolylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(133) 4-methyl-17β-(3-cyanophenylsulfonamido)-4-aza-5α–androst-1-ene-3-one;
(134) 4-methyl-17β-(4-chlorophenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(135) 4-methyl-17β-[(2-methylsufonyl)phenyl]sulfonamido)-4-aza-5α-androst-1-ene-3-one;
(136) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- phenyl urea;
(137) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (2-trifluoromethyl)phenyl urea;
(138) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (3-trifluoromethyl)phenyl urea;
(139) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- 3-chlorophenyl urea;
(140) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (4-chloro-2-trifluoromethylphenyl) urea;
(141) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- 3-acetylphenyl urea;
(142) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (5-chloro-2-trifluoromethylphenyl) urea;
(143) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (2,4-[bistrifluoromethyl]phenyl) urea;
(144) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (3,4-difluorophenyl) urea;
(145) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (2,3-dichlorophenyl) urea;
(146) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (2,4-dichlorophenyl) urea;

(147) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (3,4-dichlorophenyl) urea;
(148) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-2-chlorophenyl) urea;
(149) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (2-chloro-5-trifluoromethylphenyl) urea;
(150) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (4-chloro-3-trifluoromethylphenyl) urea;

(151) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(4-trifluoromethyl)phenyl urea;

(152) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(2,3-dimethylphenyl) urea;

(153) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-methyl urea;

(154) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-ethyl urea;

(155) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-dimethyl urea;

(156) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-diethyl urea;

(157) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl] urea;

~~(147) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(3,4-dichlorophenyl) urea;~~

~~(148) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-2-chlorophenyl) urea;~~

~~(149) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(2-chloro-5-trifluoromethylphenyl) urea;~~

~~(150) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(4-chloro-3-trifluoromethylphenyl) urea;~~

~~(151) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(4-trifluoromethyl)phenyl urea;~~

~~(152) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(2,3-dimethylpheny) urea;~~

~~(153) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-methyl urea;~~

~~(154) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-ethyl urea;~~

~~(155) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-dimethyl urea;~~

~~(156) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-diethyl urea;~~

~~(157) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl] urea;~~

and a pharmaceutically acceptable salts thereof.

10. **(Original)** The method according to Claim 6, additionally comprising the administration of a bone-strengthening agent selected from:

(a) estrogen or an estrogen derivative, alone or in combination with a progestin or progestin derivative,

(b) a bisphosphonate,

(c) an antiestrogen or a selective estrogen receptor modulator,

(d) an osteoclast integrin inhibitor,

(e) a cathepsin K inhibitor,

(f) an HMG-CoA reductase inhibitor,
(g) an osteoclast vacuolar ATPase inhibitor,
(h) an antagonist of VEGF binding to osteoclast receptors,
(i) a peroxisome proliferator-activated receptor γ,
(j) calcitonin,
(k) a calcium receptor antagonist,
(l) parathyroid hormone,
(m) a growth hormone secretagogue,
(n) human growth hormone,
(o) insulin-like growth factor,
(p) a P-38 protein kinase inhibitor,
(q) bone morphogenic protein,
(r) an inhibitor of BMP antagonism,
(s) a prostaglandin derivative,
(t) vitamin D or vitamin D derivative,
(u) vitamin K or vitamin K derivative,
(v) ipriflavone,
(w) fluoride salts, and
(x) dietary calcium supplement.

11. **(Original)** The method according to Claim 10, wherein:

(a) the estrogen or estrogen derivative, alone or in combination with a progestin or progestin derivative is selected from: conjugated estrogen, equine estrogen, 17β-estradiol, estrone, 17β-ethynyl estradiol, alone or in combination with an agent selected from norethindrone and medroxyprogesterone acetate;

(b) the bisphosphonate is selected from:
(1) 4-amino-1-hydroxybutylidene-1,1-bisphosphonic acid,
(2) N-methyl-4-amino-hydroxybutylidene-1,1-bisphosphonic acid,
(3) 4-(N,N-dimethylamino-1-hydroxybutylidene-1,1-bisphosphonic acid,
(4) 3-amino-1-hydroxypropylidene-1,1-bisphosphonic acid,
(5) 3-(N,N-dimethylamino)-1-hydroxypropylidene-1,1- bisphosphonic acid,
(6) 1-hydroxy-3-(N-methyl-N-pentylamino)propylidene-1,1-bisphosphonic acid,
(7) 1-hydroxy-2-(3-pyridyl)ethylidene-1,1-bisphosphonic acid,
(8) 4-(hydroxymethylene-1,1-bisphosphonic acid)piperidine,

(9) (1-hydroxyethylidene)-bisphosphonate,

(10) (dichloromethylene)-bisphosphonate,

(11) [1-hydroxy-2-imidazopyridin-(1,2-a)-3-ylethylidene] bisphosphonate,

(12) (6-amino-1-hydroxyhexylidene)bisphosphonate, and

(13) [1-hydroxy-2-(1H-imidazole-1-yl)ethylidene]bisphosphonate;

(c) the antiestrogen or selective estrogen receptor modulator is selected from: raloxifene, clomiphene, zuclomiphene, enclomiphene, nafoxidene, CI-680, CI-628, CN-55,945-27, Mer-25, U-11, 555A, U-100A tamoxifen, lasofoxifene, toremifene, azorxifene, EM-800, EM-652, TSE 424, droloxifene, idoxifene, and levormeloxifene;

(d) the osteoclast integrin inhibitor is selected from an alphavbeta3 inhibitor or mixed $alpha_v beta_3$ and $alpha_v beta_5$ inhibitor;

(e) the HMG-CoA reductase inhibitor is selected from lovastatin, simvastatin, dihydroxy-open acid simvastatin, pravastatin, fluvastatin, atorvastatin, cerivastatin, rosuvastatin, pitavastatin, and nisvastatin;

(f) calcitonin is salmon calcitonin admininstered as a nasal spray;

(g) bone morphogenic protein is selected from BMP 2, BMP 3, BMP 5, BMP 6, BMP 7, TGF beta, and GDF5;

(h) insulin-like growth factor is selected from IGF I and IGF II alone or in combination with IGF binding protein 3;

(i) the prostaglandin derivative is selected from agonists of prostaglandin receptor EP1, EP2, EP4, FP, and IP;

(j) the fibroblast growth factor is selected from aFGF and bFGF;

(k) parathyroid hormone or parathyroid hormone analog is selected from parathyroid hormone subcutaneous injection, human PTH, 1-84, 1-34 and other partial sequences, native or with substitutions;

(l) vitamin D or vitamin D derivative is selected from: natural vitamin D, 25-OH-vitamin D3, $1\alpha,25(OH)_2$ vitamin D3, 1α-OH-vitamin D3, 1α-OH-vitamin D2, dihydrotachysterol, 26,27-F6-1α,25(OH)2 vitamin D3, 19-nor-$1\alpha,25(OH)_2$ vitamin D3, 22-oxacalcitriol, calcipotriol, $1\alpha,25(OH)_2$-16-ene-23-yne-vitamin D3 (Ro 23-7553), EB1089, 20-epi-$1\alpha,25(OH)_2$ vitamin D3, KH1060, ED71, $1\alpha,24(S)\text{-}(OH)_2$ vitamin D3, and 1α,24(R)-(OH)2 vitamin D3;

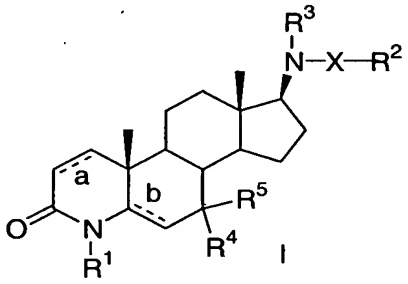
(m) the dietary calcium supplement is selected from calcium carbonate, calcium citrate, and natural calcium salts;

(n) the fluoride salts are selected from: sodium fluoride and monosodium fluorophosphate (MFP);
and pharmaceutically acceptable salts thereof.

12. **(Original)** The method according to Claim 11, additionally comprising the administration of 4-amino-1-hydroxybutylidene-1,1-bisphosphonic acid monosodium salt, trihydrate.

13. **(Original)** The method according to Claim 1, additionally comprising the administration of 4-amino-1-hydroxybutylidene-1,1-bisphosphonic acid monosodium salt, trihydrate.

14. **(Original)** A compound of structural formula I:



I

wherein:
"b" is a single bond, and "a" is a double bond;
X is selected from:

(A) -C(O)-,
(B) –C(O)-O-,
(C) –C(O)-N(R^7)-,and
(D) –$S(O)_n$-;

R^1 is methyl;
R2 is selected from:
(A) aryl, substituted by one substituents selected from:
(1) fluoro,
(2) chloro,

(3) bromo,
(4) methyl,
(5) methoxy,
(6) ethoxy,
(7) hydroxy,
(8) trifluoromethyl,
(9) trifluoromethoxy, and
(10) acetyl;.

(B) C_{1-6} alkyl, unsubstituted or substituted with one or two substituents independently selected from:
(1) fluoro,
(2) chloro,
(3) cyano,
(4) methoxy,
(5) hydroxy, and
(6) trifluoromethyl;

(C) trifluoromethyl;

(D) phenyl-C_{1-6} alkyl-, wherein phenyl is unsubstituted or substituted with one or two substituents independently selected from:
(1) halogen,
(2) methyl,
(3) C_{1-2} alkoxy,
(4) hydroxy,
(5) nitro,
(6) trifluoromethyl, and
(7) trifluoromethoxy;.

(E) C_{2-3} alkenyl;

(F) phenyl C_2alkenyl, wherein phenyl is unsubstituted or substituted with a substituent selected from:
(1) halogen,
(2) methyl, and
(3) trifluoromethyl.

(G) cycloheteroalkyl, either unsubstituted or substituted with one or two substituents selected from:

(1) fluoro,
(2) phenyl,
(3) C_{1-4} alkyl,
(4) C_{1-3} alkoxy,
(5) hydroxy,
(6) trifluoromethyl,
(7) oxo, and
(8) spiro C_{3-8} cycloalkyl;

provided that any heteroatom substituent is bonded to a carbon atom in the cycloheteroalkyl ring;
R^3 is hydrogen;
R^4 and R^5 are each hydrogen;
R^6 is hydrogen;
R^7 is hydrogen,
n is 2;
and pharmaceutically acceptable salts thereof.

15. **(Presently Amended)** A compound selected from:

(1) 4-methyl-17β–(2-trifluoromethylbenzamido)-4-aza-5α-androst-1-ene-3-one;
(2) 4-methyl-17β–(3-trifluoromethylbenzamido)-4-aza-5α-androst-1-ene-3-one;
(3) 4-methyl-17β–(2-methoxybenzamido)-4-aza-5α-androst-1-ene-3-one;
(4) 4-methyl-17β–(3-methoxybenzamido)-4-aza-5α-androst-1-ene-3-one;
(5) 4-methyl-17β–(4-methoxybenzamido)-4-aza-5α-androst-1-ene-3-one;
(6) 4-methyl-17β–(4-cyanobenzamido)-4-aza-5α-androst-1-ene-3-one;
(7) 4-methyl-17β–(2-chloro-pyrid-3-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(8) 4-methyl-17β–(pyrid-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(9) 4-methyl-17β–(pyrid-4-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(10) 4-methyl-17β–(4-(carboxymethyl)benzamido)-4-aza-5α-androst-1-ene-3-one;
(11) 4-methyl-17β–(pyrid-3-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(12) 4-methyl-17β–(2-fluorobenzamido)-4-aza-5α-androst-1-ene-3-one;
(13) 4-methyl-17β–(3-fluorobenzamido)-4-aza-5α-androst-1-ene-3-one;
(14) 4-methyl-17β–(4-fluorobenzamido)-4-aza-5α-androst-1-ene-3-one;
(15) 4-methyl-17β–(2,4-difluorobenzamido)-4-aza-5α-androst-1-ene-3-one;
(16) 4-methyl-17β–(4-chlorobutyramido)-4-aza-5α-androst-1-ene-3-one;
(17) 4-methyl-17β–(4-bromobutyramido)-4-aza-5α-androst-1-ene-3-one;

(18) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]- 2-bromoethyl ester;
(19) 4-methyl-17β–(2-methylpropamido)-4-aza-5α-androst-1-ene-3-one;
(20) 4-methyl-17β–(2-methoxyacetamido)-4-aza-5α-androst-1-ene-3-one;
(21) 4-methyl-17β–(cyclopropamido)-4-aza-5α-androst-1-ene-3-one;
(22) 4-methyl-17β–(acetamido)-4-aza-5α-androst-1-ene-3-one;
(23) 4-methyl-17β–(trifluoroacetamido)-4-aza-5α-androst-1-ene-3-one;
(24) 4-methyl-17β–(3,3,3-trifluoropropionamido)-4-aza-5α-androst-1-ene-3-one;
(25) 4-methyl-17β–(2-cyanoacetamido)-4-aza-5α-androst-1-ene-3-one;
(26) 4-methyl-17β–(2-methyl-2-hydroxypropamido)-4-aza-5α-androst-1-ene-3-one;
(27) 4-methyl-17β–(thiazo-4-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(28) 4-methyl-17β–(pyrimid-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(29) 4-methyl-17β–(pyrimid-4-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(30) 4-methyl-17β–(oxazo-5-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(31) 4-methyl-17β–(1-methyl-imidazo-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(32) 4-methyl-17β–(furan-3-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(33) 4-methyl-17β–(furan-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(34) 4-methyl-17β–(thiophene-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(35) 4-methyl-17β–(thiophene-3-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(36) 4-methyl-17β–(pyridazin-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(37) 4-methyl-17β–(5-methyl-pyridin-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(38) 4-methyl-17β–(5-chloro-pyridin-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(39) 4-methyl-17β–(quinoline-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(40) 4-methyl-17β–(quinoline-8-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(41) 4-methyl-17β–(isoquinoline-8-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(42) 4-methyl-17β–(2-chlorobenzamido)-4-aza-5α-androst-1-ene-3-one;
(43) 4-methyl-17β–(3-chlorobenzamido)-4-aza-5α-androst-1-ene-3-one;
(44) 4-methyl-17β–(4-chlorobenzamido)-4-aza-5α-androst-1-ene-3-one;
(45) 4-methyl-17β–(formamido)-4-aza-5α-androst-1-ene-3-one;
(46) 4-methyl-17β–[(2-trifluoromethylphenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(47) 4-methyl-17β–[(4-trifluoromethylphenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(48) 4-methyl-17β–[(2-chlorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(49) 4-methyl-17β–[(3-chlorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(50) 4-methyl-17β–[(4-chlorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(51) 4-methyl-17β–[(2,4-dichlorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;

(52) 4-methyl-17β–[(3-fluorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(53) 4-methyl-17β–[(4-fluorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(54) 4-methyl-17β–[(2-methoxyphenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(55) 4-methyl-17β–[(3-methoxyphenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(56) 4-methyl-17β–[(2,5-dimethoxyphenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(57) 4-methyl-17β–[(3,5-difluorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(58) 4-methyl-17β–[(3-nitrophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(59) 4-methyl-17β–(tetrahydrofuran-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(60) 4-methyl-17β–(tetrahydrofuran-3-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(61) 4-methyl-17β–(4-ethyl-pyridin-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(62) 4-methyl-17β–(3-methyl-pyridin-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(63) 4-methyl-17β–(3-bromo-pyridin-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(64) 4-methyl-17β–(4-bromo-pyridin-2-yl-amido)-4-aza-5α-androst-1-ene-3-one;
(65) 4-methyl-17β–[(2-phenylcyclopropyl)amido]-4-aza-5α-androst-1-ene-3-one;
(66) 4-methyl-17β–[(2-fluorophenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(67) 4-methyl-17β–[(pyrid-2-yl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(68) 4-methyl-17β–[(pyrid-3-yl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(69) 4-methyl-17β–[(4-methoxyphenyl)acetamido]-4-aza-5α-androst-1-ene-3-one;
(70) 4-methyl-17β–[3–(2-fluorophenyl)propionamido]-4-aza-5α-androst-1-ene-3-one;
(71) 4-methyl-17β–[3–(4-fluorophenyl)propionamido]-4-aza-5α-androst-1-ene-3-one;
(72) 4-methyl-17β–[3–(4-rifluoromethylphenyl)propionamido]-4-aza-5α-androst-1-ene-3- one;
(73) 4-methyl-17β–[3–(2-chlorophenyl)propionamido]-4-aza-5α-androst-1-ene-3-one;
(74) 4-methyl-17β–[3–(3-chlorophenyl)propionamido]-4-aza-5α-androst-1-ene-3-one;
(75) 4-methyl-17β–[3–(4-chlorophenyl)propionamido]-4-aza-5α-androst-1-ene-3-one;
(76) 4-methyl-17β-[2-trifluoromethylcinnamido]-4-aza-5α-androst-1-ene-3-one;
(77) 4-methyl-17β-[2-chlorocinnamido]-4-aza-5α-androst-1-ene-3-one;
(78) 4-methyl-17β-[2-fluorocinnamido]-4-aza-5α-androst-1-ene-3-one;
(79) 4-methyl-17β-[4-(2,5-dichlorophenyl)butanamido]-4-aza-5α-androst-1-ene-3-one;
(80) 4-methyl-17β-[4-(2-nitrophenyl)butanamido]-4-aza-5α-androst-1-ene-3-one;
(81) 4-methyl-17β-[4-(3,4-dimethoxyphenyl)butanamido]-4-aza-5α-androst-1-ene-3-one;
(82) 4-methyl-17β-[propionamido]-4-aza-5α-androst-1-ene-3-one;
(83) 4-methyl-17β-[butyramido]-4-aza-5α-androst-1-ene-3-one;
(84) 4-methyl-17β-[(2-methyl)cyclopropamido]-4-aza-5α-androst-1-ene-3-one;
(85) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-phenyl ester;

(86) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-chlorophenyl ester;
(87) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-nitrophenyl ester;
(88) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-methylphenyl ester;
(89) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-bromophenyl ester;
(90) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-fluorophenyl ester;
(91) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-methoxophenyl ester;
(92) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-nitrophenyl ester;
(93) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-naphthyl ester;
(94) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-trifluoromethylphenyl ester;
(95) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-ethyl ester;
(96) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-benzyl ester;
(97) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2,2,2-trifluoroethyl ester;
(98) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-methoxyethyl ester;
(99) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-(2,2-dimethylpropy) ester;
(100) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-fluoroethyl ester;
(101) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-allyl ester;
(102) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-methyl ester;
(103) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-1-propynoic ester;
(104) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-(2-methyl-2-butyl) ester;
(105) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-(trifluoromethyl)phenyl ester;
(106) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-(trifluoromethyl)phenyl ester;
(107) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-fluorophenyl ester;
(108) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-fluorophenyl ester;
(109) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-(2-hydroxy-1-ethyl) ester;
(110) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-methoxyphenyl ester;
(111) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-methoxyphenyl ester;
(112) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-ethoxyphenyl ester;

(113) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-ethoxyphenyl ester;
(114) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-ethoxyphenyl ester;
(115) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-chlorophenyl ester;
(116) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-chlorophenyl ester;
(117) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-3-(trifluoromethoxy)phenyl ester;
(118) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-4-(trifluoromethoxy)phenyl ester;
(119) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-2-propyl ester;
(120) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-1-propyl ester;
(121) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-1-butyl ester;
(122) Carbamic acid, [(5α,17β)-3-oxo-4-methyl-azaandrost-1-ene-17-yl]-1-hexyl ester;
(123) 4-methyl-17β-(phenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(124) 4-methyl-17β-(2-trifluoromethylphenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(125) 4-methyl-17β-(3-trifluoromethylphenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(126) 4-methyl-17β-(2-chlorophenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(127) 4-methyl-17β-(3-chlorophenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(128) 4-methyl-17β-(2-trifluoromethoxyphenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(129) 4-methyl-17β-(2-cyanophenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(130) 4-methyl-17β-(4-methoxyphenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(131) 4-methyl-17β-(3-bromo-5--methoxyphenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(132) 4-methyl-17β-(8-quinolylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(133) 4-methyl-17β-(3-cyanophenylsulfonamido)-4-aza-5α–androst-1-ene-3-one;
(134) 4-methyl-17β-(4-chlorophenylsulfonamido)-4-aza-5α-androst-1-ene-3-one;
(135) 4-methyl-17β-[(2-methylsufonyl)phenyl]sulfonamido)-4-aza-5α-androst-1-ene-3-one;
(136) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- phenyl urea;
(137) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (2-trifluoromethyl)phenyl urea;
(138) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (3-trifluoromethyl)phenyl urea;
(139) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- 3-chlorophenyl urea;
(140) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (4-chloro-2-trifluoromethylphenyl) urea;
(141) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- 3-acetylphenyl urea;
(142) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (5-chloro-2-trifluoromethylphenyl) urea;

(143) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (2,4-[bistrifluoromethyl]phenyl) urea;

(144) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (3,4-difluorophenyl) urea;

(145) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (2,3-dichlorophenyl) urea;

(146) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (2,4-dichlorophenyl) urea;

(147) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (3,4-dichlorophenyl) urea;

(148) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-2-chlorophenyl) urea;

(149) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (2-chloro-5-trifluoromethylphenyl) urea;

(150) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (4-chloro-3-trifluoromethylphenyl) urea;

(151) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(4-trifluoromethyl)phenyl urea;

(152) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(2,3-dimethylphenyl) urea;

(153) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-methyl urea;

(154) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-ethyl urea;

(155) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-dimethyl urea;

(156) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-diethyl urea;

(157) N-[(5α,17β)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl] urea;

~~(147) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (3,4-dichlorophenyl) urea;~~

~~(148) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-2-chlorophenyl) urea;~~

~~(149) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (2-chloro-5-trifluoromethylphenyl) urea;~~

~~(150) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'- (4-chloro-3-trifluoromethylphenyl) urea;~~

~~(151) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(4-trifluoromethyl)phenyl urea;~~

~~(152) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-(2,3-dimethylpheny) urea;~~

~~(153) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-methyl urea;~~

~~(154) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-ethyl urea;~~

~~(155) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-dimethyl urea;~~

~~(156) N-[(5I,17θ)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-N'-diethyl urea;~~

~~(157) N-[(5I,17ß)-4-methyl-3-oxo-4-azaandrost-1-en-17-yl]-urea;~~
and pharmaceutically acceptable salts thereof.

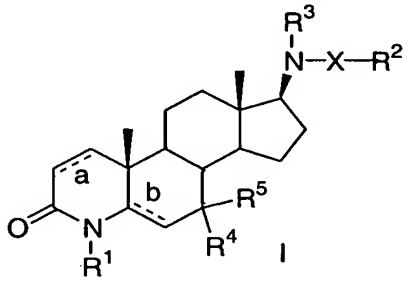
16. **(Original)** A composition comprising a compound according to Claim 14 and a pharmaceutically acceptable carrier.

17. **(Original)** The composition according to Claim 16 additionally comprising a bone-strengthening agent selected from:

(a) estrogen or an estrogen derivative, alone or in combination with a progestin or progestin derivative,
(b) a bisphosphonate,
(c) an antiestrogen or a selective estrogen receptor modulator,
(d) an osteoclast integrin inhibitor,
(e) a cathepsin K inhibitor,
(f) an HMG-CoA reductase inhibitor,
(g) an osteoclast vacuolar ATPase inhibitor,
(h) an antagonist of VEGF binding to osteoclast receptors,
(i) a peroxisome proliferator-activated receptor γ,
(j) calcitonin,
(k) a calcium receptor antagonist,
(l) parathyroid hormone,
(m) a growth hormone secretagogue,
(n) human growth hormone,
(o) insulin-like growth factor,
(p) a P-38 protein kinase inhibitor,
(q) bone morphogenic protein,
(r) an inhibitor of BMP antagonism,
(s) a prostaglandin derivative,
(t) vitamin D or vitamin D derivative,
(u) vitamin K or vitamin K derivative,
(v) ipriflavone,
(w) fluoride salts, and
(x) dietary calcium supplement.

18. **(Original)** The pharmaceutical composition according to Claim 16, additionally comprising 4-amino-1-hydroxybutylidene-1,1-bisphosphonic acid monosodium salt, trihydrate.

19. **(Cancelled)** The use of a compound of structural formula I:



I

wherein:

"a" and "b" are independently selected from a single bond and a double bond;

X is selected from:

(A) -C(O)-,

(B) –C(O)-O-,

(C) –C(O)-N(R^7)-,and

(D) –S(O)$_n$-;

R^1 is selected from:

(A) C_{1-3} alkyl,

(B) C_{2-3} alkenyl,

(C) C_{3-6} cycloalkyl,

(D) C_{1-3} alkyl wherein one or more of the hydrogen atoms has been replaced with a fluorine atom,

(E) aryl, and

(F) aryl-C_{1-3} alkyl;

R^2 is selected from:

(A) aryl, either unsubstituted or substituted with one to three substituents selected from:

(1) halogen,

(2) aryl,

(3) C_{1-8} alkyl,

(4) C_{3-8} cycloalkyl,
(5) C_{3-8} cycloheteroalkyl,
(6) aryl C_{1-6}alkyl,
(7) amino C_{0-6}alkyl,
(8) C_{1-6} alkylamino C_{0-6}alkyl,
(9) $(C_{1-6}$ alkyl$)_2$amino C_{0-6}alkyl,
(10) aryl C_{0-6} alkylamino C_{0-6}alkyl,
(11) (aryl C_{0-6} alkyl$)_2$amino C_{0-6}alkyl,
(12) C_{1-6} alkylthio,
(13) aryl C_{0-6}alkylthio,
(14) C_{1-6} alkylsulfinyl,
(15) aryl C_{0-6}alkylsulfinyl,
(16) C_{1-6} alkylsulfonyl,
(17) aryl C_{0-6}alkylsulfonyl,
(18) C_{1-6} alkoxy C_{0-6}alkyl,
(19) aryl C_{0-6} alkoxy C_{0-6}alkyl,
(20) hydroxycarbonyl C_{0-6}alkyl,
(21) C_{1-6} alkoxycarbonyl C_{0-6}alkyl,
(22) aryl C_{0-6} alkoxycarbonyl C_{0-6}alkyl,
(23) hydroxycarbonyl C_{1-6} alkyloxy,
(24) hydroxy C_{0-6}alkyl,
(25) cyano,
(26) nitro,
(27) perfluoroC_{1-4}alkyl,
(28) perfluoroC_{1-4}alkoxy,
(29) C_{1-6} alkylcarbonyloxy,
(30) aryl C_{0-6}alkylcarbonyloxy,
(31) alkyl C_{1-6} carbonylamino,
(32) aryl C_{0-6} alkylcarbonylamino,
(33) C_{1-6} alkylsulfonylamino,
(34) aryl C_{0-6}alkylsulfonylamino,
(35) C_{1-6} alkoxycarbonylamino,
(36) aryl C_{0-6} alkoxycarbonylamino,
(37) C_{1-6}alkylaminocarbonylamino,

(38) aryl C_{0-6}alkylaminocarbonylamino,
(39) $(C_{1-6}alkyl)_2$ aminocarbonylamino,
(40) (aryl C_{0-6}alkyl)$_2$ aminocarbonylamino,
(41) $(C_{1-6}alkyl)_2$ aminocarbonyloxy,
(42) C_{0-6} alkyl carbonyl C $_{0-6}$ alkyl,
(43) aryl C_{0-6} alkyl carbonyl C $_{0-6}$ alkyl, and
(44) (aryl C_{0-6}alkyl)$_2$ aminocarbonyloxy;

(B) C_{1-8} alkyl, unsubstituted or substituted with one to three substituents independently selected from:
(1) halogen,
(2) C_{1-8} alkyl,
(3) C_{3-8} cycloalkyl,
(4) C_{3-8} cycloheteroalkyl,
(5) amino,
(6) C_{1-6} alkylamino,
(7) $(C_{1-6}$ alkyl)$_2$amino,
(8) aryl C_{0-6} alkylamino,
(9) (aryl C_{0-6} alkyl)$_2$amino,
(10) C_{1-6} alkylthio,
(11) aryl C_{0-6}alkylthio,
(12) C_{1-6} alkylsulfinyl,
(13) aryl C_{0-6}alkylsulfinyl,
(14) C_{1-6} alkylsulfonyl,
(15) aryl C_{0-6}alkylsulfonyl,
(16) C_{1-6} alkoxy,
(17) aryl C_{0-6} alkoxy,
(18) hydroxycarbonyl,
(19) C_{1-6} alkoxycarbonyl,
(20) aryl C_{0-6} alkoxycarbonyl,
(21) hydroxycarbonyl C_{1-6} alkyloxy,
(22) hydroxy,
(23) cyano,
(24) nitro,
(25) perfluoroC_{1-4}alkyl,

(26) perfluoroC_{1-4}alkoxy,
(27) oxo,
(28) C_{1-6} alkylcarbonyloxy,
(29) aryl C_{0-6}alkylcarbonyloxy,
(30) alkyl C_{1-6} carbonylamino,
(31) aryl C_{0-6} alkylcarbonylamino,
(32) C_{1-6} alkylsulfonylamino,
(33) aryl C_{0-6}alkylsulfonylamino,
(34) C_{1-6} alkoxycarbonylamino,
(35) aryl C_{0-6} alkoxycarbonylamino,
(36) C_{1-6}alkylaminocarbonylamino,
(37) aryl C_{0-6}alkylaminocarbonylamino,
(38) $(C_{1-6}alkyl)_2$ aminocarbonylamino,
(39) (aryl C_{0-6}alkyl)$_2$ aminocarbonylamino,
(40) $(C_{1-6}alkyl)_2$ aminocarbonyloxy,
(41) (aryl C_{0-6}alkyl)$_2$ aminocarbonyloxy, and
(42) spiro-C_{3-8}cycloalkyl;

(C) perfluoroC_{1-6} alkyl,

(D) aryl-C_{1-6} alkyl-, wherein aryl is unsubstituted or substituted with 1 to 3 substituents independently selected from:

(1) halogen,
(2) C_{1-8} alkyl,
(3) C_{3-8} cycloalkyl,
(4) aryl,
(5) aryl C_{1-3} alkyl-,
(6) amino,
(7) amino C_{1-6} alkyl-,
(8) C_{1-3} acylamino,
(9) C_{1-3} acylamino C_{1-6} alkyl,
(10) C_{1-6} alkylamino,
(11) C_{1-6} alkylamino C_{1-6} alkyl,
(12) di(C_{1-6}) alkylamino,
(13) di(C_{1-6}) alkylamino-C_{1-6} alkyl,
(14) C_{1-4} alkoxy,

(15) C_{1-4} alkylthio,
(16) C_{1-4} alkylsulfinyl,
(17) C_{1-4} alkylsulfonyl,
(18) C_{1-4} alkoxy C_{1-6} alkyl,
(19) hydroxycarbonyl,
(20) hydroxycarbonyl C_{1-6} alkyl,
(21) C_{1-5} alkoxycarbonyl,
(22) C_{1-3} alkoxycarbonyl C_{1-6} alkyl,
(23) hydroxycarbonyl C_{1-6} alkyloxy,
(24) hydroxy,
(25) hydroxy C_{1-6} alkyl,
(26) cyano,
(27) nitro,
(28) trifluoromethyl,
(29) trifluoromethoxy,
(30) C_{1-5} alkylcarbonyloxy;

and wherein alkyl is substituted with one to three substituents selected from:

(1) halogen,
(2) C_{3-8} cycloalkyl,
(3) C_{3-8} cycloheteroalkyl,
(4) amino,
(5) C_{1-6} alkylamino,
(6) $(C_{1-6}$ alkyl$)_2$amino,
(7) aryl C_{0-6} alkylamino,
(8) (aryl C_{0-6} alkyl$)_2$amino,
(9) C_{1-6} alkylthio,
(10) aryl C_{0-6} alkylthio,
(11) C_{1-6} alkylsulfinyl,
(12) aryl C_{0-6}alkylsulfinyl,
(13) C_{1-6} alkylsulfonyl,
(14) aryl C_{0-6} alkylsulfonyl,
(15) C_{1-6} alkoxy,
(16) aryl C_{0-6} alkoxy,
(17) hydroxycarbonyl,

(18) C_{1-6} alkoxycarbonyl,
(19) aryl C_{0-6} alkoxycarbonyl,
(20) hydroxycarbonyl C_{1-6} alkyloxy,
(21) hydroxy,
(22) cyano,
(23) nitro,
(24) trifluoroalkyl,
(25) trifluoroalkoxy,
(26) oxo,
(27) C_{1-6} alkylcarbonyloxy,
(28) aryl C_{0-6} alkylcarbonyloxy,
(29) C_{1-6} alkyl carbonylamino,
(30) aryl C_{0-6} alkylcarbonylamino,
(31) C_{1-6} alkylsulfonylamino,
(32) aryl C_{0-6} alkylsulfonylamino,
(33) C_{1-6} alkoxycarbonylamino,
(34) aryl C_{0-6} alkoxycarbonylamino,
(35) C_{1-6} alkylaminocarbonylamino,
(36) aryl C_{0-6} alkylaminocarbonylamino,
(37) $(C_{1-6}$ alkyl$)_2$ aminocarbonylamino,
(38) (aryl C_{0-6} alkyl$)_2$ aminocarbonylamino,
(39) $(C_{1-6}$ alkyl$)_2$ aminocarbonyloxy,
(40) (aryl C_{0-6} alkyl$)_2$ aminocarbonyloxy, and
(41) spiro-C_{3-8} cycloalkyl;

(E) C_{2-8} alkenyl, unsubstituted or substituted with one to three substituents independently selected from:
(1) halogen,
(2) C_{1-8} alkyl,
(3) C_{3-8} cycloalkyl,
(4) C_{3-8} cycloheteroalkyl,
(5) amino,
(6) C_{1-6} alkylamino,
(7) $(C_{1-6}$ alkyl$)_2$amino,
(8) aryl C_{0-6} alkylamino,

(9) (aryl C_{0-6} alkyl)$_2$amino,
(10) C_{1-6} alkylthio,
(11) aryl C_{0-6}alkylthio,
(12) C_{1-6} alkylsulfinyl,
(13) aryl C_{0-6}alkylsulfinyl,
(14) C_{1-6} alkylsulfonyl,
(15) aryl C_{0-6}alkylsulfonyl,
(16) C_{1-6} alkoxy,
(17) aryl C_{0-6} alkoxy,
(18) hydroxycarbonyl,
(19) C_{1-6} alkoxycarbonyl,
(20) aryl C_{0-6} alkoxycarbonyl,
(21) hydroxycarbonyl C_{1-6} alkyloxy,
(22) hydroxy,
(23) cyano,
(24) nitro,
(25) perfluoroC_{1-4}alkyl,
(26) perfluoroC_{1-4}alkoxy,
(27) oxo,
(28) C_{1-6} alkylcarbonyloxy,
(29) aryl C_{0-6}alkylcarbonyloxy,
(30) alkyl C_{1-6} carbonylamino,
(31) aryl C_{0-6} alkylcarbonylamino,
(32) C_{1-6} alkylsulfonylamino,
(33) aryl C_{0-6}alkylsulfonylamino,
(34) C_{1-6} alkoxycarbonylamino,
(35) aryl C_{0-6} alkoxycarbonylamino,
(36) C_{1-6}alkylaminocarbonylamino,
(37) aryl C_{0-6}alkylaminocarbonylamino,
(38) (C_{1-6}alkyl)$_2$ aminocarbonylamino,
(39) (aryl C_{0-6}alkyl)$_2$ aminocarbonylamino,
(40) (C_{1-6}alkyl)$_2$ aminocarbonyloxy,
(41) (aryl C_{0-6}alkyl)$_2$ aminocarbonyloxy, and
(42) spiro-C_{3-8}cycloalkyl;

(F) aryl C_{2-8} alkenyl, wherein aryl is unsubstituted or substituted with one to three substituents independently selected from:

(1) halogen,
(2) C_{1-8} alkyl,
(3) C_{3-8} cycloalkyl,
(4) aryl,
(5) aryl C_{1-3} alkyl-,
(6) amino,
(7) amino C_{1-6} alkyl-,
(8) C_{1-3} acylamino,
(9) C_{1-3} acylamino C_{1-6} alkyl,
(10) C_{1-6} alkylamino,
(11) C_{1-6} alkylamino C_{1-6} alkyl,
(12) di(C_{1-6}) alkylamino,
(13) di(C_{1-6}) alkylamino-C_{1-6} alkyl,
(14) C_{1-4} alkoxy,
(15) C_{1-4} alkylthio,
(16) C_{1-4} alkylsulfinyl,
(17) C_{1-4} alkylsulfonyl,
(18) C_{1-4} alkoxy C_{1-6} alkyl,
(19) hydroxycarbonyl,
(20) hydroxycarbonyl C_{1-6} alkyl,
(21) C_{1-5} alkoxycarbonyl,
(22) C_{1-3} alkoxycarbonyl C_{1-6} alkyl,
(23) hydroxycarbonyl C_{1-6} alkyloxy,
(24) hydroxy,
(25) hydroxy C_{1-6} alkyl,
(26) cyano,
(27) nitro,
(28) trifluoromethyl,
(29) trifluoromethoxy, and
(30) C_{1-5} alkylcarbonyloxy;

(G) C_{3-8} cycloalkyl, either unsubstituted or substituted with one to 3 substituents selected from:

(1) halogen,
(2) aryl,
(3) C_{1-8} alkyl,
(4) C_{3-8} cycloalkyl,
(5) C_{3-8} cycloheteroalkyl,
(6) aryl C_{1-6}alkyl,
(7) amino C_{0-6}alkyl,
(8) C_{1-6} alkylamino C_{0-6}alkyl,
(9) $(C_{1-6}$ alkyl$)_2$amino C_{0-6}alkyl,
(10) aryl C_{0-6} alkylamino C_{0-6}alkyl,
(11) (aryl C_{0-6} alkyl$)_2$amino C_{0-6}alkyl,
(12) C_{1-6} alkylthio,
(13) aryl C_{0-6}alkylthio,
(14) C_{1-6} alkylsulfinyl,
(15) aryl C_{0-6}alkylsulfinyl,
(16) C_{1-6} alkylsulfonyl,
(17) aryl C_{0-6}alkylsulfonyl,
(18) C_{1-6} alkoxy C_{0-6}alkyl,
(19) aryl C_{0-6} alkoxy C_{0-6}alkyl,
(20) hydroxycarbonyl C_{0-6}alkyl,
(21) C_{1-6} alkoxycarbonyl C_{0-6}alkyl,
(22) aryl C_{0-6} alkoxycarbonyl C_{0-6}alkyl,
(23) hydroxycarbonyl C_{1-6} alkyloxy,
(24) hydroxy C_{0-6}alkyl,
(25) cyano,
(26) nitro,
(27) perfluoroC_{1-4}alkyl,
(28) perfluoroC_{1-4}alkoxy,
(29) oxo,
(30) C_{1-6} alkylcarbonyloxy,
(31) aryl C_{0-6}alkylcarbonyloxy,
(32) alkyl C_{1-6} carbonylamino,
(33) aryl C_{0-6} alkylcarbonylamino,
(34) C_{1-6} alkylsulfonylamino,

(35) aryl C_{0-6}alkylsulfonylamino,
(36) C_{1-6} alkoxycarbonylamino,
(37) aryl C_{0-6} alkoxycarbonylamino,
(38) C_{1-6}alkylaminocarbonylamino,
(39) aryl C_{0-6}alkylaminocarbonylamino,
(40) $(C_{1-6}alkyl)_2$ aminocarbonylamino,
(41) (aryl C_{0-6}alkyl)$_2$ aminocarbonylamino,
(42) $(C_{1-6}alkyl)_2$ aminocarbonyloxy,
(43) (aryl C_{0-6}alkyl)$_2$ aminocarbonyloxy,
(44) C $_{0-6}$ alkylcarbonly C $_{0-6}$ alky, and
(45) spiro-C_{3-8}cycloalkyl;

(H) cycloheteroalkyl, unsubstituted or substituted with one to three substituents selected from:
(1) halogen,
(2) aryl,
(3) C_{1-8} alkyl,
(4) C_{3-8} cycloalkyl,
(5) C_{3-8} cycloheteroalkyl,
(6) aryl C_{1-6}alkyl,
(7) amino C_{0-6}alkyl,
(8) C_{1-6} alkylamino C_{0-6}alkyl,
(9) (C_{1-6} alkyl)$_2$amino C_{0-6}alkyl,
(10) aryl C_{0-6} alkylamino C_{0-6}alkyl,
(11) (aryl C_{0-6} alkyl)$_2$amino C_{0-6}alkyl,
(12) C_{1-6} alkylthio,
(13) aryl C_{0-6}alkylthio,
(14) C_{1-6} alkylsulfinyl,
(15) aryl C_{0-6}alkylsulfinyl,
(16) C_{1-6} alkylsulfonyl,
(17) aryl C_{0-6}alkylsulfonyl,
(18) C_{1-6} alkoxy C_{0-6}alkyl,
(19) aryl C_{0-6} alkoxy C_{0-6}alkyl,
(20) hydroxycarbonyl C_{0-6}alkyl,
(21) C_{1-6} alkoxycarbonyl C_{0-6}alkyl,

(22) aryl C_{0-6} alkoxycarbonyl C_{0-6}alkyl,
(23) hydroxycarbonyl C_{1-6} alkyloxy,
(24) hydroxy C_{0-6}alkyl,
(25) cyano,
(26) nitro,
(27) perfluoroC_{1-4}alkyl,
(28) perfluoroC_{1-4}alkoxy,
(29) oxo,
(30) C_{1-6} alkylcarbonyloxy,
(31) aryl C_{0-6}alkylcarbonyloxy,
(32) alkyl C_{1-6} carbonylamino,
(33) aryl C_{0-6} alkylcarbonylamino,
(34) C_{1-6} alkylsulfonylamino,
(35) aryl C_{0-6}alkylsulfonylamino,
(36) C_{1-6} alkoxycarbonylamino,
(37) aryl C_{0-6} alkoxycarbonylamino,
(38) C_{1-6}alkylaminocarbonylamino,
(39) aryl C_{0-6}alkylaminocarbonylamino,
(40) $(C_{1-6}alkyl)_2$ aminocarbonylamino,
(41) (aryl C_{0-6}alkyl)$_2$ aminocarbonylamino,
(42) $(C_{1-6}alkyl)_2$ aminocarbonyloxy,
(43) (aryl C_{0-6}alkyl)$_2$ aminocarbonyloxy, and
(44) spiro-C_{3-8}cycloalkyl;

provided that any heteroatom substituent is bonded to a carbon atom in the cycloheteroalkyl ring;

R^3 is selected from H, perfluoro C_{1-8} alkyl, and C_{1-8} alkyl, unsubstituted or substituted with one to three halogen atoms, or R^2 and R^3, together with the nitrogen atom, and the "X" moiety to which they are attached, form a 5- to 7-membered heterocyclic ring, optionally containing one or two additional heteroatoms selected from N, S, and O, optionally having one or more degrees of unsaturation, optionally fused to a 6-membered heteroaromatic or aromatic ring, either unsubstituted or substituted with one to three substituents selected from:

(1) halogen,
(2) aryl,
(3) C_{1-8} alkyl,

(4) C_{3-8} cycloalkyl,
(5) C_{3-8} cycloheteroalkyl,
(6) aryl C_{1-6}alkyl,
(7) amino C_{0-6}alkyl,
(8) C_{1-6} alkylamino C_{0-6}alkyl,
(9) $(C_{1-6}$ alkyl$)_2$amino C_{0-6}alkyl,
(10) aryl C_{0-6} alkylamino C_{0-6}alkyl,
(11) (aryl C_{0-6} alkyl$)_2$amino C_{0-6}alkyl,
(12) C_{1-6} alkylthio,
(13) aryl C_{0-6}alkylthio,
(14) C_{1-6} alkylsulfinyl,
(15) aryl C_{0-6}alkylsulfinyl,
(16) C_{1-6} alkylsulfonyl,
(17) aryl C_{0-6}alkylsulfonyl,
(18) C_{1-6} alkoxy C_{0-6}alkyl,
(19) aryl C_{0-6} alkoxy C_{0-6}alkyl,
(20) hydroxycarbonyl C_{0-6}alkyl,
(21) C_{1-6} alkoxycarbonyl C_{0-6}alkyl,
(22) aryl C_{0-6} alkoxycarbonyl C_{0-6}alkyl,
(23) hydroxycarbonyl C_{1-6} alkyloxy,
(24) hydroxy C_{0-6}alkyl,
(25) cyano,
(26) nitro,
(27) perfluoroC_{1-4}alkyl,
(28) perfluoroC_{1-4}alkoxy,
(29) oxo,
(30) C_{1-6} alkylcarbonyloxy,
(31) aryl C_{0-6}alkylcarbonyloxy,
(32) C_{1-6} alkyl carbonylamino,
(33) aryl C_{0-6} alkylcarbonylamino,
(34) C_{1-6} alkylsulfonylamino,
(35) aryl C_{0-6}alkylsulfonylamino,
(36) C_{1-6} alkoxycarbonylamino,
(37) aryl C_{0-6} alkoxycarbonylamino,

(38) C_{1-6}alkylaminocarbonylamino,
(39) aryl C_{0-6}alkylaminocarbonylamino,
(40) $(C_{1-6}alkyl)_2$ aminocarbonylamino,
(41) (aryl C_{0-6}alkyl)$_2$ aminocarbonylamino,
(42) $(C_{1-6}alkyl)_2$ aminocarbonyloxy,
(43) (aryl C_{0-6}alkyl)$_2$ aminocarbonyloxy, and
(44) spiro-C_{3-8}cycloalkyl,

provided that any heteroatom substituent is bonded to a carbon atom in the heterocyclic ring;

R^4 and R^5 are each independently selected from

(1) hydrogen,
(2) halogen,
(3) aryl,
(4) C_{1-8} alkyl,
(5) C_{3-8} cycloalkyl,
(6) C_{3-8} cycloheteroalkyl,
(7) aryl C_{1-6}alkyl,
(8) amino C_{0-6}alkyl,
(9) C_{1-6} alkylamino C_{0-6}alkyl,
(10) $(C_{1-6}$ alkyl)$_2$amino C_{0-6}alkyl,
(11) aryl C_{0-6} alkylamino C_{0-6}alkyl,
(12) (aryl C_{0-6} alkyl)$_2$amino C_{0-6}alkyl,
(13) C_{1-6} alkylthio,
(14) aryl C_{0-6}alkylthio,
(15) C_{1-6} alkylsulfinyl,
(16) aryl C_{0-6}alkylsulfinyl,
(17) C_{1-6} alkylsulfonyl,
(18) aryl C_{0-6}alkylsulfonyl,
(19) C_{1-6} alkoxy C_{0-6}alkyl,
(20) aryl C_{0-6} alkoxy C_{0-6}alkyl,
(21) hydroxycarbonyl C_{0-6}alkyl,
(22) C_{1-6} alkoxycarbonyl C_{0-6}alkyl,
(23) aryl C_{0-6} alkoxycarbonyl C_{0-6}alkyl,
(24) hydroxycarbonyl C_{1-6} alkyloxy,

(25) hydroxy C_{0-6}alkyl,

(26) cyano,

(27) nitro,

(28) perfluoroC_{1-4}alkyl,

(29) perfluoroC_{1-4}alkoxy,

(30) C_{1-6} alkylcarbonyloxy,

(31) aryl C_{0-6}alkylcarbonyloxy,

(32) C_{1-6} alkylcarbonylamino,

(33) aryl C_{0-6} alkylcarbonylamino,

(34) C_{1-6} alkylsulfonylamino,

(35) aryl C_{0-6}alkylsulfonylamino,

(36) C_{1-6} alkoxycarbonylamino,

(37) aryl C_{0-6} alkoxycarbonylamino,

(38) C_{1-6}alkylaminocarbonylamino,

(39) aryl C_{0-6}alkylaminocarbonylamino,

(40) $(C_{1-6}alkyl)_2$ aminocarbonylamino,

(41) (aryl C_{0-6}alkyl)$_2$ aminocarbonylamino,

(42) $(C_{1-6}alkyl)_2$ aminocarbonyloxy,

(43) (aryl C_{0-6}alkyl)$_2$ aminocarbonyloxy, and

(44) spiro-C_{3-8}cycloalkyl;

or, R^4 and R^5 together form an oxo group or =CH-R^6 or a spiro C $_{3-7}$ cycloalkyl ring substituted with R^6;

R^6 is selected from hydrogen and C_{1-4} alkyl;

R^7 is selected from hydrogen, perfluoro C_{1-8} alkyl, and C_{1-8} alkyl, unsubstituted or substituted with one to three halogen atoms.

n is selected from: 0, 1, and 2;

and pharmaceutically acceptable salts thereof;

for the preparation of a medicament useful for modulating the androgen receptor in a tissue selective manner in a patient in need of such modulation.

20. **(Cancelled)** The use according to Claim 19 wherein modulating the androgen receptor comprises agonizing the androgen receptor in a patient in need thereof.

21. **(Cancelled)** The use according to Claim 19 wherein modulating the androgen receptor is useful in treating a condition caused by androgen deficiency or which can be ameliorated by androgen administration selected from: osteoporosis, osteopenia, glucocorticoid-induced osteoporosis, periodontal disease, HIV-wasting, cancer cachexia, bone fracture, bone damage following bone reconstructive surgery, muscular dystrophies, sarcopenia, frailty, aging skin, male hypogonadism, post-menopausal symptoms in women, female sexual dysfunction, premature ovarian failure, autoimmune disease,atherosclerosis, hypercholesterolemia, hyperlipidemia, aplastic anemia and other hematopoietic disorders, pancreatic cancer, renal cancer, arthritis and joint repair.